

Adamas Adalon® 237 PTFE, 25% Glass Fiber

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Glass Filled, Molded

Material Notes:

Information provided by Adamas, HPM

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adamas-Adalon-237-PTFE-25-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.23 - 2.25 g/cc	2.23 - 2.25 g/cc	ASTM D792
Deformation	5.0 - 6.5 %	5.0 - 6.5 %	Permanent deformation after 24 hrs @ 23°C; ASTM D621
	9.0 - 11 %	9.0 - 11 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54 - 58	54 - 58	ASTM D2240
Ball Indentation Hardness	50.0 - 55.0 MPa	7250 - 7980 psi	ISO 2032-N132
Tensile Strength at Break	>= 12.0 MPa	>= 1740 psi	ASTM D4894
Elongation at Break	>= 160 %	>= 160 %	ASTM D4894
Compressive Strength	0.785 - 0.883 MPa @Temperature 23.0 °C, Time 86400 sec	114 - 128 psi @Temperature 73.4 °F, Time 24.0 hour	@ 1% deformation, 140 Kg/cm ² ; ASTM D621
Coefficient of Friction, Dynamic	0.15 - 0.17	0.15 - 0.17	ASTM D1894
Coefficient of Friction, Static	0.17 - 0.19	0.17 - 0.19	ASTM D1894

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft ² -°F	ASTM C 177
Melting Point	327 °C	621 °F	DSC
Maximum Service Temperature, Air	260 °C	500 °F	DSC
Minimum Service Temperature, Air	-180 °C	-292 °F	DSC
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

Electrical Properties

Metric 1.00×10^{14} ohm

English 1.00×10^{14} ohm

Comments

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